## **AMENDMENTS TO THE CLAIMS:**

Please amend claims 1, 3, 7, 11-14, 17, 25-27 and 41-42, cancel claims 28-40, and add claims 43-55 as follows:

1. (Currently Amended) A method of depositing a silicon germanium film on a substrate comprising:

placing the providing a substrate within a process chamber;

heating the substrate to a temperature in a range from about 500°C to about 900°C:

maintaining at a pressure in a range from about 0.1 Torr to about 200 Torr; providing exposing the substrate to a deposition gas comprising SiH<sub>4</sub>, GeH<sub>4</sub>, HCl, a carrier gas and at least one dopant gas; and depositing the a silicon germanium film material epitaxially on the substrate.

- 2. (Original) The method of claim 1, wherein the at least one dopant gas is a boron containing compound selected from the group consisting of BH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>, B<sub>3</sub>H<sub>8</sub>, Me<sub>3</sub>B, Et<sub>3</sub>B and derivatives thereof.
- 3. (Currently Amended) The method of claim 2, wherein the silicon germanium film material is deposited with a boron concentration in a range from about  $1\times10^{20}$  atoms/cm<sup>3</sup> to about  $2.5\times10^{21}$  atoms/cm<sup>3</sup>.
- 4. (Original) The method of claim 1, wherein the at least one dopant gas includes an arsenic containing compound or a phosphorus containing compound.
- 5. (Original) The method of claim 1, wherein the carrier gas is selected from the group consisting of  $H_2$ , Ar,  $N_2$ , He and combinations thereof.

- 6. (Original) The method of claim 5, wherein the deposition gas further comprises a member selected from the group of consisting of a carbon source, Cl<sub>2</sub>SiH<sub>2</sub> and combinations thereof.
- 7. (Currently Amended) The method of claim 5, wherein the temperature is in a range from about 600°C to about 750°C and the process chamber is at a pressure in a range from about 0.1 Torr to about 200 Torr.
- 8. (Original) The method of claim 5, wherein the silicon germanium film is grown to a thickness in a range from about 100 Å to about 3,000 Å.
- 9. (Original) The method of claim 8, wherein the silicon germanium film is deposited within a device used for CMOS, Bipolar or BiCMOS application.
- 10. (Original) The method of claim 9, wherein a fabrication step is selected from the group consisting of contact plug, source/drain extension, elevated source/drain and bipolar transistor.
- 11. (Currently Amended) The method of claim 1, wherein the silicon germanium film material is deposited to with a first thickness, therein SiH<sub>4</sub> is replaced by Cl<sub>2</sub>SiH<sub>2</sub>, and a second silicon germanium film material is deposited to with a second thickness on the silicon germanium film material.
- 12. (Currently Amended) The method of claim 1, wherein a silicon-containing film material is deposited to on the substrate before the silicon germanium film material.
- 13. (Currently Amended) The method of claim 12, wherein the silicon-containing film material is deposited from by a deposition process gas comprising Cl<sub>2</sub>SiH<sub>2</sub>.
- 14. (Currently Amended) A selective epitaxial method for of growing a silicon germanium film on a substrate comprising:

placing the proving a substrate within a process chamber-at-a pressure in a range from about 0.1 Torr to about 200 Torr;

heating the substrate to a temperature in a range from about 500°C to about 900°C:

providing exposing the substrate to a deposition gas comprising SiH<sub>4</sub>, a germanium source, an etchant source, a carrier gas and at least one dopant gas; and

growing selectively the <u>a</u> silicon germanium film <u>material</u> with a dopant concentration in a range from about  $1\times10^{20}$  atoms/cm<sup>3</sup> to about  $2.5\times10^{21}$  atoms/cm<sup>3</sup>.

- 15. (Original) The method of claim 14, wherein the germanium source is selected from the group consisting of GeH<sub>4</sub>, Ge<sub>2</sub>H<sub>6</sub>, Ge<sub>3</sub>H<sub>8</sub>, Ge<sub>4</sub>H<sub>10</sub> and derivatives thereof.
- 16. (Original) The method of claim 15, wherein the carrier gas is selected from the group consisting of  $H_2$ , Ar,  $N_2$ , He and combinations thereof.
- 17. (Currently Amended) The method of claim 16, wherein the temperature <u>is</u> in a range from about 600°C to about 750°C <u>and the process chamber is at a pressure in a range from about 0.1 Torr to about 200 Torr.</u>
- 18. (Original) The method of claim 17, wherein the etchant source is selected from the group consisting of HCl, SiCl<sub>4</sub>, CCl<sub>4</sub>, H<sub>2</sub>CCl<sub>2</sub>, Cl<sub>2</sub>, derivatives thereof and combinations thereof.
- 19. (Original) The method of claim 14, wherein the at least one dopant gas is a boron containing compound selected from the group consisting of BH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>, B<sub>3</sub>H<sub>8</sub>, Me<sub>3</sub>B, Et<sub>3</sub>B and derivatives thereof.
- 20. (Original) The method of claim 14, wherein the at least one dopant gas is selected from the group consisting of an arsenic containing compound and a phosphorus containing compound.

- 21. (Original) The method of claim 14, wherein the deposition gas further comprises a member selected from the group consisting of a carbon source, Cl<sub>2</sub>SiH<sub>2</sub> and combinations thereof.
- 22. (Original) The method of claim 17, wherein the silicon germanium film is grown to a thickness in a range from about 100 Å to about 3,000 Å.
- 23. (Original) The method of claim 22, wherein the silicon germanium film is deposited within a device used for CMOS, Bipolar or BiCMOS application.
- 24. (Original) The method of claim 23, wherein a fabrication step is selected from the group consisting of contact plug, source/drain extension, elevated source/drain and bipolar transistor.
- 25. (Currently Amended) The method of claim 14, wherein the silicon germanium film material is deposited to with a first thickness, therein SiH<sub>4</sub> is replaced by Cl<sub>2</sub>SiH<sub>2</sub>, and a second silicon germanium film material is deposited to with a second thickness on the silicon germanium film material.
- 26. (Currently Amended) The method of claim 14, wherein a silicon-containing film material is deposited to on the substrate before the silicon germanium film material.
- 27. (Currently Amended) The method of claim 26, wherein the silicon-containing film material is deposited from by a deposition process gas comprising Cl<sub>2</sub>SiH<sub>2</sub>.

28-40. (Cancelled)

41. (Currently Amended) A selective epitaxial method for growing a siliconcontaining of depositing a silicon germanium containing film on a substrate comprising:

placing the providing a substrate within a process chamber-at a pressure in a range from about 0.1 Torr to about 200 Torr;

heating the substrate to a temperature in a range from about 500°C to about 900°C;

providing exposing the substrate to a deposition gas comprising Cl<sub>2</sub>SiH<sub>2</sub>, a first germanium source, HCl and a carrier gas;

depositing a first silicon-containing layer on the substrate;

providing exposing the substrate to a second deposition gas comprising SiH<sub>4</sub>, a second germanium source, HCl and a second carrier gas; and

depositing a second silicon-containing layer on the <u>first</u> silicon-containing layer.

42. (Currently Amended) A method of depositing a silicon-containing film on a substrate comprising:

placing the a substrate within a process chamber;

heating the substrate to a temperature in a range from about 500°C to about 900°C;

maintaining the process chamber at a pressure in a range from about 0.1 Torr to about 200 Torr;

providing exposing the substrate to a deposition gas comprising a silicon-containing gas, a germanium source, HCl, at least one dopant gas and a carrier gas selected from the group consisting of N<sub>2</sub>, Ar, He and combinations thereof; and

depositing selectively the <u>a</u> silicon-containing film <u>material</u> epitaxially on the substrate.

43. (New) A method of depositing a silicon germanium film on a substrate comprising:

providing a substrate within a process chamber;

exposing the substrate to a first deposition gas comprising SiH<sub>4</sub>, a first germanium source, HCl and a carrier gas to deposit a first silicon germanium containing material with a first thickness on the substrate; and

exposing the substrate to a second deposition gas comprising Cl<sub>2</sub>SiH<sub>2</sub> and a second germanium source to deposit a second silicon germanium containing material with a second thickness on the first silicon germanium containing material.

- 44. (New) The method of claim 43, wherein the first silicon germanium containing material is selectively deposited on the substrate.
- 45. (New) The method of claim 44, wherein the first deposition gas further comprises at least one dopant gas.
- 46. (New) The method of claim 45, wherein the first silicon germanium containing material has a dopant concentration in a range from about  $1\times10^{20}$  atoms/cm<sup>3</sup> to about  $2.5\times10^{21}$  atoms/cm<sup>3</sup>.
- 47. (New) The method of claim 46, wherein the at least one dopant gas comprises an element selected from the group consisting boron, arsenic, phosphorus and combinations thereof.
- 48. (New) The method of claim 47, wherein the at least one dopant gas comprises a boron containing compound selected from the group consisting of BH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>, B<sub>3</sub>H<sub>8</sub>, Me<sub>3</sub>B, Et<sub>3</sub>B and derivatives thereof.
- 49. (New) The method of claim 43, wherein the second silicon germanium containing material is selectively deposited on the substrate.
- 50. (New) The method of claim 49, wherein the second deposition gas further comprises HCl and at least one dopant gas.

- 51. (New) The method of claim 50, wherein the at least one dopant gas comprises an element selected from the group consisting boron, arsenic, phosphorus and combinations thereof.
- 52. (New) The method of claim 51, wherein the at least one dopant gas comprises a boron containing compound selected from the group consisting of BH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>, B<sub>3</sub>H<sub>8</sub>, Me<sub>3</sub>B, Et<sub>3</sub>B and derivatives thereof.
- 53. (New) The method of claim 43, wherein the first and second germanium sources are independently selected from the group consisting of GeH<sub>4</sub>, Ge<sub>2</sub>H<sub>6</sub>, Ge<sub>3</sub>H<sub>8</sub>, Ge<sub>4</sub>H<sub>10</sub> and derivatives thereof.
- 54. (New) The method of claim 53, wherein the first and second thicknesses are independently in a range from about 100 Å to about 3,000 Å.
- 55. (New) The method of claim 54, wherein the substrate is heated to a first temperature during the exposure of the first deposition gas and to a second temperature during the exposure of the second deposition gas, wherein the first and second temperatures are independently a temperature within a range from about 500°C to about 900°C.